

CLAIMS

1. An air-conditioner comprising:

a blower including a fan and a casing for accommodating the fan to constitute an air path, and  
5 supplying air to a compartment;

an air-conditioner casing constituting a path of air supplied from the blower;

10 a cooling unit arranged in the air-conditioner casing for cooling the air supplied into the compartment;

a heating unit arranged in the air-conditioner casing for heating the air supplied into the compartment;

15 an air flow-rate adjusting means for adjusting flow rate of air supplied to the cooling unit and flow rate of air supplied to the heating unit; and

an air mixing chamber for mixing cool air cooled by the cooling unit and hot air heated by the heating unit;

20 wherein the air flow-rate adjusting means adjusts the flow rate of the air supplied to the cooling unit and the flow rate of the air supplied to the heating unit, by changing a position of the casing and thereby changing a flow direction of air discharged from the  
25 blower to a predetermined direction.

2. An air-conditioner comprising:

a blower including a fan and a casing for accommodating the fan to constitute an air path, and  
30 supplying air to a compartment;

an air-conditioner casing constituting a path of air supplied from the blower;

35 a cooling unit arranged in the air-conditioner casing and cooling the air supplied to the compartment;

a bypass for supplying air to the compartment after the air bypasses the cooling unit;

an air flow-rate adjusting means for

adjusting flow rate of air supplied to the cooling unit and flow rate of air flowing through the bypass; and

an air mixing chamber for mixing cool air cooled by the cooling unit and air flowing through the bypass;

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wherein the air flow-rate adjusting means adjusts the flow rate of the air supplied to the cooling unit and the flow rate of the air flowing through the bypass, by changing a position of the casing and thereby changing a flow direction of air discharged from the blower to a predetermined direction.

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3. An air-conditioner comprising:

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a blower including a fan and a casing for accommodating the fan to constitute an air path, and supplying air to a compartment;

an air-conditioner casing constituting a path of air supplied from the blower ;

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a heating unit arranged in the air-conditioner casing for heating the air supplied to the compartment;

a bypass for supplying air to the compartment after the air bypasses the heating unit;

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an air flow rate adjusting means for adjusting flow rate of air supplied to the heating unit and flow rate of air flowing through the bypass; and

an air mixing chamber for mixing hot air heated by the heating unit and air flowing through the bypass;

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wherein the air flow-rate adjusting means adjusts the flow rate of the air supplied to the heating unit and the flow rate of the air flowing through the bypass, by changing a position of the casing and thereby changing a flow direction of air discharged from the blower to a predetermined direction.

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4. An air-conditioner comprising:

a blower for supplying air to a compartment;

an air-conditioner casing constituting a path of air supplied from the blower;

5 a cooling unit arranged in the air-conditioner casing and cooling air supplied to the compartment;

a heating unit arranged in the air-conditioner casing for heating air supplied to the compartment;

10 an air flow-rate adjusting means for adjusting flow rate of air supplied to the cooling unit and flow rate of air supplied to the heating unit; and

15 an air mixing chamber for mixing cool air cooled by the cooling unit and hot air heated by the heating unit;

20 wherein the air flow-rate adjusting means adjusts the flow rate of the air supplied to the cooling unit and the flow rate of the air supplied to the heating unit, by changing a flow direction of air discharged from the blower to a predetermined direction with at least a plate-door-like guide.

5. An air-conditioner comprising:

a blower for supplying air to a compartment;

25 an air-conditioner casing constituting a path of air supplied from the blower ;

at least a heat exchanger arranged in the air-conditioner casing for heating or cooling the air supplied to the compartment;

30 a bypass for supplying air to the compartment after the air bypasses the heat exchanger;

an air flow-rate adjusting means for adjusting flow rate of air supplied to the heat exchanger and flow rate of air flowing through the bypass; and

35 an air mixing chamber for mixing air flowing through the heat exchanger and air flowing through the bypass;

wherein the air flow-rate adjusting means

adjusts the flow rate of the air supplied to the heat exchanger and the flow rate of the air flowing through the bypass, by changing a flow direction of air discharged from the blower to a predetermined direction with at least a plate-door-like guide.

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6. An air-conditioner according to claim 1,  
wherein the cooling unit and the heating unit are arranged in parallel with each other with respect to a flow of supplied air.

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7. An air-conditioner according to claim 1,  
wherein the air flow-rate adjusting means rotates the casing about a rotational axis of the fan.

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8. An air-conditioner according to claim 1,  
wherein the air flow-rate adjusting means rotates the casing and a motor for rotating the fan, about the rotational axis of the fan.

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9. An air-conditioner according to claim 1,  
wherein the air flow-rate adjusting means controls the whole flow rate of air discharged from the blower to the cooling unit in a maximum cooling mode.

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10. An air-conditioner according to claim 1,  
wherein the air flow-rate adjusting means controls the whole flow rate of air discharged from the blower to the heating unit in a maximum heating mode.

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An air-conditioner according to claim 4,  
wherein the cooling unit and the heating unit are arranged in parallel with each other with respect to a flow of supplied air.

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12. An air-conditioner according to claim 2,  
wherein the air flow-rate adjusting means rotates the casing about a rotational axis of the fan.

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13. An air-conditioner according to claim 2,  
wherein the air flow-rate adjusting means rotates the casing and a motor for rotating the fan, about the rotational axis of the fan.

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An air-conditioner according to claim 4,  
wherein the air flow-rate adjusting means

controls the whole flow rate of air discharged from the blower to the cooling unit in a maximum cooling mode.

15. An air-conditioner according to claim 4,

5 wherein the air flow-rate adjusting means controls the whole flow rate of air discharged from the blower to the heating unit in a maximum heating mode.

16. An air-conditioner according to claim 3,

wherein the air flow-rate adjusting means rotates the casing about a rotational axis of the fan.

10 17. An air-conditioner according to claim 3,

wherein the air flow-rate adjusting means rotates the casing and a motor for rotating the fan, about the rotational axis of the fan.